

## **Abstract**

The invention proposes to increase the diameter of the top sections (2) of the tethers on tension leg platforms (TLP) (4) to make top sections (1) positively buoyant. This buoyancy can be designed to compensate for the weight of the lower sections (2) to make the total buoyancy of the tether closer to neutral. The selection process for each section is driven by requirements for buoyancy, stiffness and external pressure resistance.

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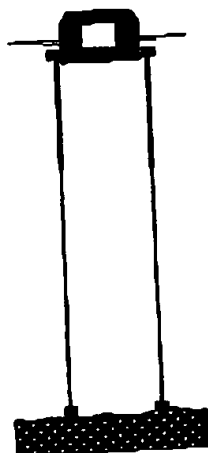
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(57) Abstract: The invention proposes to increase the diameter of the top sections (2) of the tethers on tension leg platforms (TLP) (4) to make top sections (1) positively buoyant. This buoyancy can be designed to compensate for the weight of the lower sections (2) to make the total buoyancy of the tether closer to neutral. The selection process for each section is driven by requirements for buoyancy, stiffness and external pressure resistance.



**TLP with tethers**

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